ROAD TO HUDSON BAY

Plan for Short Cut to Europe Recently Revived.

SIX RAILWAYS NOW PROJECTED

Mr. Hill. Who Once Ridiculed the Scheme as Impractical, One of the Promotors-New Outlet Receives Momentum from Great Corps in Northwest-Some Interesting Data.

The promise of returning prosperity, the unexempled harvests of the Northwest, and the wrangle into which the freight-carrying roads, the lake carriers, and the Canadian routes have become involved, gives added interest to the projects launched nearly two years ago as the natural and about the only solution of the freight problem in the United States and Canadian Northwest. In the early part of 1907 six different

charters were taken out for as many railroad schemes connecting that great wheat-producing region with Hudson Bay. These projects were thrown into abeyance by the financial stringency of last year, but they are once more being talked about, not only as possibilities, but as probabilities. The moving of the crops this year accentuates the need of this Northern outlet, as the car shortage of a year and a half ago did.

Mr. Hill Changes Front. One of the six charters was obtained by James J. Hill, who used to ridicule a Hudson Bay road as a venture that would be "snowed up ten months of the year and iced up the other two."

The Hill charter plans to feed the freight of the Dakotas and Minnesota into the Saskatchewan Valley and from the Saskatchewan to Hudson Bay. Builders have been at work on the southern end of this project

Another of the Hudson Buy charters is owned by the new Canadian transconti line-the MacKenzie-Mann road. Of the 400 miles needed to connect Church ill with the railroads of the Saskatche wan, the MacKenzie-Mann road has al ready eighty built, a railroad with trains Tunning, not "just an iron tonic for the cows." as the funny papers have always described roads to Hudson Bay. Details of the Projects.

Two other projects have been galvanized into life by the schemes for a Hudson Bay route, says the Review of Reviews For years Canada has talked of a deepwater canal up the Ottawa, from the St Lawrence to the Great Lakes. Suddenly surveyors are set to work estimating the cost of a canal that would connect Lake Superior with ocean traffic. The cost, it may be said, is estimated at \$125,000,000. Then around Hudson Bay is a vast un organized territory-Keewatin, about the size of Germany. The western provinces of Germany. of Manitoba and Saskatchewan suddenly awaken to the fact that each wants an extension of its boundaries across Kee watin for a seaport on Hudson Bay.

Roughly speaking, Churchill, which will be the seaport of tht Hudson Bay routes, is just 1,000 miles from the grain areas of Hill's roads. New York is 2,000 miles. Churchill is 1,500 miles from Oregon. New

Says Premier Laurier, in answer to a request for a road from ex-Premier Greenway, of Manitoba: "I agree the time has come for the railroad to Hudson Bay. The statute books contain a standalong the line of this railroad, and if this miles of tubing. is not sufficient encouragement for promoters, other means must be found."

is a direct 550-mile plain, open, deep-water which annually produce \$800,000 worth of the finny tribe is transmitted by the delicate instrument. ships know-is true of neither Montreal nor New York. At New York deep-draft teria were found at the rate of about the human body. ships have to wait the tide both for approach and departure; and on the St.

Over against this advantage, let it be at San Jose, Cal. stated frankly, Churchill, summer and winter, is subject to just as furious gales as ever bothered the iron rocks of Newfoundland. On the iron rocks of Newfoundland. One other danger peculiar to A Danish expedition has gone to Green-Churchill must be noted. Five miles out land to teach the Eskimos how to fish the bay is open all the year round, but profitably by modern means.

as the cold becomes intense, what is known as "frost fog" lies thick as wool on the sea, obscuring everything.

Twelve all-steel sprinkling cars recently were completed for use on the Chicago City Railway Company's tracks.

Entrance is Narrow.

lands is not a half mile wide, against the fires twenty-five shots at a single loading. tremendous current of river and ebb tide, In the world last year there was probut the depth is untouchable. Fort duced 964,910 metric tons of lead, as com-Churchill is the harbor inside, a magnifi- pared with 968,174 tons in 1906. cent expanse of land-locked water, with A new type of torpedo, with which the the fur post five miles up stream.

But all railroad projects to Hudson Bay

navy is experimenting, bores its way the hull of a ship before exploding.

hinge not on Churchill harbor, but on the straits. Can they be navigated? How long are they open? Even if they can be navigated by slow ocean-goers, will they be of any avail for a fast Atlantic route?

Hudson Straits are really a deep gorge of prehistoric ages-has cut and grooved a ton. sammed from the west and pounded and contracted the area of an ice confinent, and up this channel from the east runs a mac a tide-rip thirty-five feet high. When Paris. tide-rip and ice meet there occurs what the old navigators of the Hudson Bay fur trade call "the furious overfall."

Reports Are Incomplete.

The Canadian government has sent two A new supply of rubber, believed to be special expeditions (in 1885 and 1897) to practically inexhaustible, has been distest the navigation of the straits, and covered in a never-before-explored secone general expedition to navigate the tion of Brazil. northern waters (1903-04), but the question At the rate that work is now going on, has become so terribly political-so much the tunnel through the Cordilleras, to a question of East versus West-that the connect Valparaiso and Buenos Ayres, pfficial reports on the expedition are more will be completed in 1910.

these facts: Hudson Bay is open all the year round; an open current flows through the straits winter as well as summer, but owing to ice drives this current of November, and not open again till Junewhen the straits can be navigated, sometimes six. There was also discovered, just inside the eastern entrance to the straits, a splendid landlocked harbor, or haven of refuge—Port Burwell—sheltered railroad, which is operated advantageous-

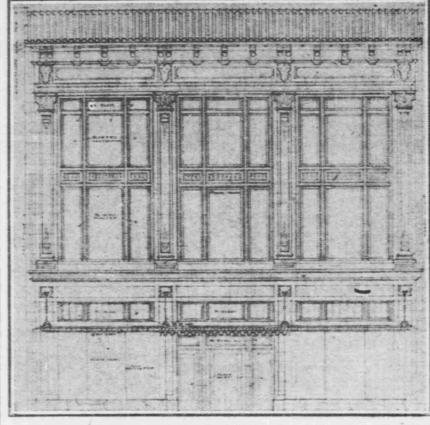
Iron and Steel Look Bright,

The leading trade papers present hopeful views of the iron and steel situation, fully for a distance of \$10 miles. for about 12,000 new cars has stimulated the Eskimo.

TYPICAL HOMES IN CLEVELAND PARK.



IMPROVEMENT IN NEW YORK AVENUE.



Front elevation of Chesley & Chesley building, from design drawn by Wood,

INDUSTRIAL FACTS FROM MANY SOURCES

12 per cent of sugar.

shoals, no reefs, deep enough for the A \$10,000,000 hydro-electric plant is to be In a recent test of Paris rainwater bac-

Lawrence ships are always taking a mud scientifically done on an enormous scale Drying fruit by the sun's rays is being Humming birds are disappearing fro

City Railway Company's tracks.

The aged inventor of the Mauser rifle The entrance between the two head- has now perfected a new weapon which

The human lungs exhale each day an 45,000,000,000 tons of anthracite, will be de amount of carbon which, if solidified, veloped as soon as railroads now under which the ice of the arctic world-the ice | would equal a lump of coal weighing half

Two hundred and forty thousand wooden paving blocks a day are turned out by a machine owned by the municipality of A Western Nebraska farm is being suc-

cessfully irrigated by a home-made wind-mill, the fans of which were originally

A photographic process which gives both

The second largest masonry arch in the world, having an arch of 78 feet and a span of 278.9 feet, recently was completed on an Austrian railread.

an Austrian railroad.

and the Canadian government is planning to more than double the distance. Berlin is having great success with its

Wireless telephony records recently were broken when an invention of three French naval lieutenants was operated success-

the favorable agricultural conditions The American Museum of Natural Hisbringing a demand for the lighter lines tory and the Canadian geological departused by farmers back to near normal, ment are working together in the collecwhile the prospective placing of orders tion of an immense amount of data about

for about 12,000 new cars has stimulated activity in some other departments. In the heavier lines, however, business is planted on the Hawaiian Islands, the still spotty and no new orders of consequence have been secured by the rail mills.

Charles Darwin, whose theories in the exceeded in many ways, has been elected on still spotty and no new orders of consequence have been secured by the rail mills.

miles of tubing.

pany will erect an extensive plant to workmen.

The best beet root yields an average of treat railroad ties and other timbers. The peo with creosote and zinc chloride to extend men

Using extremely delicate instruments, deepest-draft keel that ever sailed the established by the Japanese prefecture of the French Academy of Science is experi-sea. This—as captains of the big war Shizueka.

years, Gen. Goulaeff, a member of the Institution of Naval Architects, has and deep, with two locks each 250 feet long nounced that he can render ships both and 60 feet wide, the work to be begun unsinkable and uncapsizable. nsinkable and uncapsizable.

The Department of Agriculture has emonstrated that Chinese and Japanese amboo can be profitably grown in this and will experiment with ught-resistant forms from India.

China's new torpedo-boat destroyers, built in Germany, have an indicated horsepower of 6,000 and made 25.2 knots on their trial trip and 33.6 knots with a cruising load of fuel on board.

After spending fifteen years in making minute observations of the moon, Prof. Brown, of Yale University, will spend ten years more in studying them to de-termine the moon's exact position. new coal field, estimated to contain

veloped as soon as railroads now under construction reach the Crows Nest Mountain region of Alberta. With a blowpipe, using a mixture of

and torn forcibly out of the sold rock, Some of the finest French tapestry is finding egress from Fox Channel of the manufactured so slowly that an artist acetylene and oxygen, steel and coppe arctic to open water of the Atlantic. Into cannot produce more than two square sheets a quarter of an inch thick may be this funnel of rock, 450 miles long, is feet in a year. temperature of 6,000 degrees is used.

To cover a pulley with leather, use a warm solution of crushed nutgalls in eight parts of rainwater on the and a concentrated solution of glue on the pulley, which also should be warmed. After thorough tests covering a number of years, the officials of the Burlington Railroad have declared that concrete ties are unsatisfactory, and have decided to

build a large wood-preserving plant. By wrapping them in a new vegetable paper, fish caught off the Portuguese coast are delivered in Belgium sixteen days later in better condition, as regards

than for what they say.

The Gordon expedition of 1885 and the Prof. Lippman, of Paris, a pioneer in Wakeham of 1897 definitely established color photography.

When a pest of eels threatened to interfere with the operation of the Snow Mountain Power Company, in California, When a pest of eels threatened to inter-

government, the Department of Agriculer, and not open again till June—
Already electric power generated by
there are always five months
Niagara Falls is distributed 125 miles, plants of the grasses used in matting, and will experiment with them in several Southern States,

American financial aid has been asked for the erection at Montpelier, France, of a memorial to the late Gustav Fox, whose work on the grapevine phylloxera and other viticultural questions are well known to the horticultural world.

Despite the fact that fires are fought more scientifically in the United States than in any other nation, the losses per capita in the last five years have been nearly ten times as great as in the leading six European nations.

Francis Darwin, son of the famous Charles Darwin, whose theories he has

and stone work, and John Kearney for the plastering. STORY OF THE SOO

COVERS 300 YEARS

Continued from Page One,

there, when Gen. Cass went up from Mackinac Island with a force of sixty-six men in canoes to establish a military post. They found the British flag still flying. Cass pulled it down with his own hand, raised the Stars and Stripes in its place, and obtained permission of the In.

Fairbanks brothers were the principals, and associated with them were, J. W. Brooks. Erastus Corning. August Belmont, H. Dwight, jr., and Thomas Dwyer, and their sureties were Franklin Moore, George F. Potter, John Owen, James F. Joy, and Henry P. Baldwin, of Detroit.

As soon as the contract was given the

to establish a Presbyterian mission. He preached the Gospel to the little white preached the Gospe to the intre white sula, including the copper belt north settlement and endeavored to convert the Indians. Miss Charlotte Johnson. Afterward wife of the archdeacon of the archdeacon of the settlement and endeavored to convert the Houghton, from which not less than \$500,000 worth of copper has since been settlement and endeavored to convert the settlement the settlement the settlement that the settlement the settlement the settlement that the settlement the settlement that the settlement that the settlement the settlement that hurch of England in Canada, was his taken. first convert and interpreter.

Fight for a Ship Canal,

Michigan was admitted into the Union his first message to the first legislature. advocated the construction of a canal around the rapids of the Sault Ste. Mawhich was made by John Almy. In his 1881 and has since been from report he recommended a canal 75 feet | What is now called the Weitzel lock, in report he recommended a canal is feet wide, 19 feet deep, with two locks, each honor of Gen. Godfrey Weitzel, of the United States army, was designed by Gen. Gen. In September, 1838, the State audeep. In September, 1838, the State authorities entered into a contract with Messrs. Smith and Driggs, of Buffalo, to construct the canal at a cost of \$110, 544, and they began work. But the Federal authorities, claiming jurisdiction, sent a detachment of soldiers to the scene of constructions and forcibly ejected the

The people of Michigan and the vessel and 22 feet deep.

moon." The advocates of the measure had the audacity to predict that the fulure commerce of Lake Superior would be worth a million dollars per annum, and declared that "In the country bordering the southern shore copper and other minerals are believed to exist in 2 about seven minutes and through the Canadian locks in eight minutes, but the actual time averages twenty-nine minutes, and vicinity by lending money to trust-actual time averages twenty-nine minutes, but the actual time averages t

Far-sighted Young Man.

cussed Charles T. Harvey, scarcely twen- their voyages. ty-one years of age, an employe of the Fairbanks Scales Company at St. Johnsbury. Vt., was recuperating from an atbury. Vt., was recuperating from an attack of typhoid fever among friends at don publication, quotes the following sumthe Baptist mission at the Soo, and he mary of the values of Cape Colony of the immense mineral wealth, the tim-ber, the fisheries, and other resources of 752.233; other products, \$4.866.000; fruit, the country, which depended upon a ca- \$378,127, a total of \$54,210,239. The value of nal for their development. He urged the live stock in the colony ingures for although they had no other information was \$127,894,023.

to guide them, they adopted his sugges-tion and authorized him to act in their Harvey at once sought the late James

DESIGNED WHITE HOUSE.

Claim Made that Irish Architect Made Plans for Structure Here. Dublin, Aug. 29 .- The Freeman's Journal is authority for the statement that the White House, the official residence of the American Presidents, was the work

of an Irish architect, James Hoban, who

When only twenty-two years of age,

ccording to that newspaper, he won a

medal from the Royal Dublin Society for drawings for brackets, stairs, roof," &c.

which is now in the possession of his

grandson, Mr. James Hoban, a resident

The popular name of "White House,

the Freeman's Journal says, is really

due to Hoban's thought of painting the

crown-stone fronting the exterior wall white, due to discoloration caused by

smoke and fire. The White House was

built according to Hoban's designs and

under his supervision, both before and

after the destruction of the newly cre-

ated public buildings of Washington by

the British in 1814. The White House

was not completed until 1829, and Hoban

According to the same authority, four

other Irishmen were associated with Ho-ban in the construction of the building of

which he was the architect. Cornelius

MacDermott Roe, Patrick Roe, and John

Delahunty had the contract for the brick

was born in Kilkenny in 1758.

of the United States.

lived until 1831.

F. Joy and other prominent and progressive men in Detroit, secured their co-operation, sent East for engineers, obtained options upon stone quarries, and when the legislature of Michigan had autherized action was prepared to submit a bid for the construction of the canal nal. It was not until 1820 that the au. Fairbanks brothers were the principals.

place, and obtained permission of the Indians to build a fort, which is now known as Fort Brady.

As soon as the contract was signed Harvey secured authority to select the lands to be donated in aid of the canal, and, In 1828 the Rev. Abel Bingham arrived acting upon knowledged gained by his ex-

The canal was finished April 19, 1855 Up to 1845 there was only infrequent twenty-two and a half months from the communication with Detroit and Chicago, chiefly maintained by the sailing yes, sels of the fur company, but in the spring of that year the steamer Detroit bearing to make communication with Detroit and Chicago, chiefly maintained by the sailing yes, sels of the fur company, but in the spring of that year the steamer Detroit bearing to make communication with Detroit and Chicago, the sail of the steamer than the sail months from the day that Harvey broke ground. It was 5,700 feet long, 64 feet wide at the bottom. began to make regular weekly voyages. The next year another steamer was put on to accommodate the increased traffic caused by the discovery of copper and live to the steamer was the steamer lilinois, and the steamer Baltimore was the first to pass down

Canal Is Made Free.

From 1855 to 1881 the canal was controlled by the State of Michigan, and a toll of 6½ cents a ton was charged to cover operating expenses. This was after-The legislature responded promptly mum of \$3 per vessel. The canal was by appropriating \$25,000 for a survey, transferred to the Federal government in

deepened and lengthened, so that it of the Churchill Harbor, the writer quotes records showing that it has always an open season of five months. In favorable

The rainless Atacama desert of North-congress authorizing the construction of the greatest industry of the kind in the world, yielding as a bounty to aid it. Henry Clay made on the practicability of the congress authorizing the construction of a canal and granting 100,000 acres of land dustry of the kind in the world, yielding as a bounty to aid it. Henry Clay made on the practicability of the congress authorizing the construction of a canal and granting 100,000 acres of land dustry of the kind in the world, yielding as a bounty to aid it. Henry Clay made on the practicability of the construction of a canal and granting 100,000 acres of land dustry of the kind in the world, yielding as a bounty to aid it. Henry Clay made on the practicability of the construction of a canal and granting 100,000 acres of land dustry of the kind in the world, yielding as a bounty to aid it. Henry Clay made on the practicability of the writer quotes are construction of the construction of a canal and granting 100,000 acres of land dustry of the kind in the world, yielding as a bounty to aid it. Henry Clay made on the practicability of the construction of a canal and granting 100,000 acres of land dustry of the kind in the world, yielding as a bounty to aid it. open season of five months. In favorable

Beasons this is extended to seven months.

The harbor itself could not have been better if it had been made to order. It is a direct 550-mile plain, open, deep-water is all from the months are possible.

Season of five months. In favorable session of man is in the form of coln.

So powerful are the jaws of a wasp tilizers.

The use of the microphone in fishing is undergoing a series of experiments in the United States, if not in the United States, if not in the United States, if not in the Canadian locks. A vessel can be put through either of the American locks. A vessel can be put through either of the American locks. A vessel can be put through either of the American locks. The noise made by schools of the finny tribe is transmitted by the deli-

the human body.

The familiar shaving paste known as "creme d'amande" is made by melting one part of caustic potash into three parts of lard, with sufficient essence of almonds to give it a flavor.

After working on his theory for ten years, Gen, Goulaeff, a member of the Institution.

As the familiar shaving paste known as "creme d'amande" is made by melting agitation grew stronger and its advocates more influential. It was reintroduced an act granting the State of Michigan 750,000 acres of land from the public domain within its limits to aid in building a canal 100 feet wide. 12 feet one year ago. This fact has an intended that a long line of boats laden with coal, ore, wheat, and merchandise is always waiting at both entrances, and this delay is very costly in a short season of naving gation. The shipowners have adopted many devices for saving time. Sailing up the lakes you can see coal docks amid-stream, where vessels going up and down. is only necessary for them to slow down their speed and run alongside, when the patent loading apparatus will in a few minutes transfer from the coal bins on the docks to the bunkers of the vessels during the heydey of prosperity. While this legislation was being dis- enough fuel to carry them to the end of

Crop Production in Cape Colony. From figures of crop returns collected wrote his firm enthusiastic descriptions duction in the year 1907; Crops, \$7,213,939

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DESCRIPTION Two stories and attic, air chamber, dry concreted cellar; not a "box" house, but 4 rooms deep to the floor; deep lot to 20-ft.

alley, with plenty of room for garage or stable. The cabinet mantels, gas fixtures, and gas logs, kitchen cabinets, and cabinet gas ranges, the handsome decorations and papering, as well as the fine polished flooring throughout the house, excel many homes at ten times the price

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such reduction in current rates of pay but it is the universal experience of em

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ducements to purchasers who

agree to build. Thos. J. Fisher & Co. (Inc.), 738 15th st. nw.

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